INDEX TO VOLUME 90, 1978

By C. Dwight Cooley

This index includes references to genera, species, authors, and key words or terms. In addition to avian species, references are made to the scientific names of all vertebrates mentioned within the volume. Common names are as they appeared in the volume.

Acanthis flammea, 401
Accipiter cooperi, 182–196, 297
  gentilis, 182–196
  striatus, 182–196, 201
Actitis macularia, 63, 67–70, 79–83
Agelaius phoeniceus, 7, 31–44, 261–270, 457–458, 473, 511–520, 541, 578, 619–634, 653–656
Aglaeactis cupripennis, 448
  castelnaudii, 448
Aimophila aestivalis, 153, 328
  botterii, 328
  cassini, 328
  notosticta, 328
  rufescens, 328
  ruficeps, 328
  stolzmanni, 328
  strigiceps, 328
Ainley, David G., Robert C. Wood and William J. L. Sladen, Bird life at Cape Crozier, Ross Island, 492–510
Aix sponsa, 131–132, 287–290, 423–437, 652
Ajaia ajaja, 125
Alabama, 438–441
Albers, Peter H., Habitat selection by breeding Red-winged Blackbirds, 619–634
albinism, 336
Alces alces, 312
Alopex lagopus, 134
Amazilia verticalis, 128
Amclopsetta quadrocellata, 115, 116
Ameiva, 203
Ammodramus henslowii, 94
  savannarum, 335–345, 632
Ammospiza nigrescens, 309
Anabacerthia striaticollis, 139–141
Anas acuta, 99–111, 455
  americana, 99–111, 428
  clypeata, 99–111, 131
  crecca, 99–111, 428
  cyanoptera, 314
  diazi, 131, 155, 317, 472
  discors, 99–111, 428, 434
  flavirostris, 551
  fulvigula, 99–111
  platyrhynchos, 155, 312–314, 428, 646–647
  rubripes, 428, 540
  strepera, 99–111, 314, 470–471
Anderson, William L. and Ronald E. Duzan, DDE residues and eggshell thinning in Loggerhead Shrikes, 215–220
Anhinga anhinga, 359–375, 608–618
Ani, Groove-billed, see Crotophaga sulcirostris
  Smooth-billed, see Crotophaga ani
Anolis, 203
Anomalospiza imberbis, 668
Antbird, Immaculate, see Myrmeciza immaculata
ant-following, 139–141
Anthus spinoletta, 287
Antilocapra americana, 312
Ant-tanager, Crested, see Habia cristata
Antthrush, Black-faced, see Formicarius analis
  Short-tailed, see Chamaeza campanisoma
Antvireo, Plain, see Dysithamnus mentalis
Antwren, Slaty, see Myrmotherula schisticolor
Anumbius anumbi, 544–552
Apalis, White-winged, see Apalis chariessa macphersoni
Apalis chariessa macphersoni, 667
Aphelocoma coerulescens, 525–528
  c. coerulescens, 1–18
Aptenodytes forsteri, 492–496, 504–510
Aramides, 323

Archilochus alexandri, 127, 472
colubris, 473
Ardea herodias, 56, 455–456, 610, 615
Ardeola ralloides, 667
Arenaria interpres, 71, 79–83
Argentina, 544–552
Argusianus argus, 331
Asio flammeus, 201
otus, 127, 134, 297
Asthenes flammulata virgata, 447
humilis, 447
ottonis, 448
wyatti, 447
Asyndesmus lewis, 285
Athene cunicularia, 449, 454
awards and grants
Aaron M. Bagg Student Membership Awards, 157
Frank M. Chapman Fund, 672
Hawk Mountain Research Award, 308
Louis Agassiz Fuertes Award, 670
Margaret Morse Nice Award, 670
Paul A. Stewart Award, 670
Aythya affinis, 99–111, 540, 587
americana, 99–111, 314–316, 334
collaris, 99–111
valisineria, 99–111, 317
Baird, James, see Banks, Richard C. and
———
Ball, Garth, see Hochbaum, George and
———
Bananaquit, see Coereba flaveola
Bandy, LeRoy W. and Barbara Bandy, Marsh Hawks following hunting red fox, 133–134
Banks, Richard C. and James Baird, A new hybrid warbler combination, 143–144
Baptista, Luis F., A revision of the Mexican Piculus (Picidae) complex, 159–181
Barber, John C., see Cope, James B. and
———
Barbtail, Spotted, see Premnoplex brunnescens
Barlow, Jon C., Another colony of the Guadeloupe House Wren, 635–637
Bartramia longicauda, 65, 79–83, 126
Basileuterus rufifrons, 130
behavior
Anhinga anhinga, 359–375
breeding
Hydranassa tricolor, 45–59
brooding
Anhinga anhinga, 370–371
caching
Otus asio, 450
calling, 204
courtship
Leucosticte australis, 285–287
fishing
Cathartes aura, 141–143
Coragyps atratus, 141–143
foraging
Melanerpes erythrocephalus, 521–535
Pandion haliaetus, 112–118
Parulidae, 197–214
hunting
Bubo virginianus, 136–137
Tyto alba, 136–137
incubation
Anhinga anhinga, 362–365
Colinus virginianus, 290–291
maintenance
Melanerpes erythrocephalus, 532
nest relief
Anhinga anhinga, 366–367
nest-searching
Molothrus bonariensis, 275
nesting
Anhinga anhinga, 368–370
Myiopsitta monachus, 544–552
post-fledging
Progne subis, 376–385
social
Parulidae, 197–214
spacing
Hirundo rustica, 399–400
Petrochelidon pyrrhonota, 399–400
territorial
Melanerpes erythrocephalus, 285, 521–535
Benson, C. W. and F. M. Benson, The birds of Malawi, reviewed, 666–667
Berman, Susan L., review by, 663–665
Betta splendens, 295
Bittern, Least, see Ixobrychus exilis
Blackbird, see Turdus merula
Brewer's, see Euphagus cyanocephalus

Red-winged, see Agelaius phoeniceus
Rusty, see Euphagus carolinus
Blake, Emmet R., Manual of neotropical birds, vol. 1, reviewed, 332–334
Bluebird, Eastern, see Sialia sialis
Mountain, see Sialia currucoides
Bobolink, see Dolichonyx oryzivorus
Bobwhite, see Colinus virginianus
Bock, Carl E., Martin Raphael and Jane H. Bock, Changing avian community structure during early post-fire succession in the Sierra Nevada, 119–123
Bock, Walter J., Morphology of the larynx of Corvus brachyrhynchos (Passeriformes: Corvidae), 553–565
Bohm, Robert T., Protocalliphora infestation in Great Horned Owls, 297
Bombycilla cedrorum, 20, 217
Bonasa umbellus, 132–133, 326
Bondesen, Poul, North American bird songs: A world of music, reviewed, 153–155
Brant, see Branta bernicla
Branta bernicla nigricans, 125
canadensis, 314, 428, 646–647
c. maxima, 456–457
c. moffitti, 455–456
sandvicensis, 663
Braun, Clait E., Keith W. Harman, Jerome A. Jackson and Carroll D. Littlefield, Conservation Committee Report, 309–321
breeding biology
Anhinga anhinga, 372
Zonotrichia capensis, 273–274
breeding chronology
Anhinga anhinga, 371–372
breeding density
Accipiter cooperii, 182–196
gentilis, 182–196
striatus, 182–196
Charadrius vociferus, 442–443
breeding season
Molothrus bonariensis, 275
Ortalis vetula mccallii, 389–390
Brenowitz, Gene L., An analysis of Gila Woodpecker vocalizations, 451–455
brood adoption
Bonasa umbellus, 132–133
brood size
Progne subis, 251–253
brooding
Hydranassa tricolor, 55–57
Brooks, Maurice, Fifty years of the Wilson Ornithological Society—Banquet Address at the 1978 Wilson Ornithological Society Meeting, Jackson's Mill, W. Va., 464–467
Brown, Bryant T. and John W. Goertz, Reproduction and nest site selection by Red-winged Blackbirds in north Louisiana, 261–270
Brown, Charles R., Double-broodedness in Purple Martins in Texas, 239–247; Post-fledging behavior of Purple Martins, 376–385; Addendum, 657
Bubo virginianus, 134–137, 195, 297, 325, 336, 449, 455–456, 473, 525
Bucephala clangula, 125
Budgerigar, see Melopsittacus undulatus
Bulbulcus ibis, 56–57, 291, 610, 615, 667
Bull, John and John Farrand, Jr., The Audubon Society field guide to North American birds, Eastern region, reviewed, 325–327
Bunting, Indigo, see Passerina cyanea
Lazuli, see Passerina amoena
Varied, see Passerina versicolor
Burger, Joanna, Great Black-backed Gull breeding in salt marsh in New Jersey, 304–305; review by, 330–332; ———, Lynne M. Miller and D. Caldwell Hahn, Behavior and sex roles of nesting Anhingas at San Blas, Mexico, 359–375; ——— and Joseph Shisler, Nest site selection of Willets in a New Jersey salt marsh, 599–607
Bush Tyrant, Red-rumped, see Myiotheretes erythropygius
Buteo jamaicensis, 297, 380, 449, 456
lagopus, 126, 134
lineatus, 297, 525
platypterus, 659
regalis, 126
swainsoni, 380, 472
Butorides striatus, 124
virescens, 50, 141, 360–361, 370, 611
Calidris alba, 73, 79–83

alpina, 649
bairdii, 471
canutus, 72, 79–83, 126, 649
fuscicollis, 77–83, 649
mauri, 75–83
melanotos, 78–83, 471
minutilla, 75–83
pusilla, 74–83, 649
California, 642–643
Calothorax lucifer, 127–128
Campylorhynchus brunneicapillum, 303
Canachites canadensis, 326
Canastero, Many-striped, see Asthenes flammulata virgata
Rusty-fronted, see Asthenes ottonis
Streaked-backed, see Asthenes wyatti
Streaked-throated, see Asthenes humilis
Canirallus, 322
kioloides kioloides, 324
Canis familiaris, 134
latrans, 316
cannibalism
Bubo virginianus, 449
Canvasback, see Aythya valisineria
Cape Crozier, Ross Island, 492–510
Caperton, Alastair M. G., see Paynter, Raymond A. Jr., and ———
Caprimulgus ridgwayi, 127
Caracara, Red-throated, see Daptrius americanus
Cardinal, see Cardinalis cardinalis
Cardinalis cardinalis, 21–27, 154, 644
Carduelis flammea, 658
pinus, 121
Carpodacus cassinii, 121
purpureus, 407
Casmerodius albus, 594, 611, 615
cat, domestic, see Felis catus and Felis domestica
Catagonus wagleri, 148
Catostomus commersoni, 637
Catbird, Gray, see Dumetella carolinensis
Catharacta lonnbergi, 494–510
maccormicki, 502–510
Cathartes aura, 141–143, 380, 642–643
Catharus fuscescens, 335–345
guttatus, 21–25, 120, 153, 407
minimus, 335–345
ustulatus, 129, 335–345, 407–408, 578
u. oedicus, 129
Catoptrophorus semipalmatus, 70, 79–83, 599–607
Celeus castaneus, 169
Ceratophrys ornata, 283
Certhia familiaris, 120, 235
Cervus canadensis, 310
Chachalaca, Chestnut-winged, see Ortalis garrula
Plain, see Ortalis vetula mccalli
Rufous-vented, see Ortalis ruficauda
Chaetura pelagica, 578
Chaffinch, see Fringilla coelebs
Chalcostigma stanleyi, 448
Chamaeza campanisoma, 140–141
Charadrius melodus, 126
montanus, 126, 604
semipalmatus, 64–65, 79–83, 471
vociferus, 442–443
Chat, Yellow-breasted, see Icteria virens
Chen caerulescens, 663
hyperborea, 313
Chickadee, Black-capped, see Parus atricapillus
Carolina, see Parus carolinensis
Mountain, see Parus gambeli
chicken, see Gallus gallus
chick success
Anhinga anhinga, 370
Chimango, see Milvago chimango
Chingolo, see Zonotrichia capensis
Chough, Mountain, see Pyrrhocorax graculus
Chlidonias niger, 127
Chloroceryle americana, 128
Chondestes, 329
grammacus, 155, 380
Christensen, Zan D., Danny B. Pence and Gretchen Scott, Notes on food habits of the Plain Chachalaca from the lower Rio Grande Valley, 647–648
Chordeiles minor, 472
Cinclodes, Bar-winged, see Cinclodes fuscus
Gray-flanked, see Cinclodes oustaleti
Cinclodes fuscus, 447–448
oustaleti, 447
Circus aeruginosus, 661
buffoni, 661
cinereous, 661
cyaneus, 133–134, 661–662
pygarus, 661

Ciridops anna, 559, 561
Cistothorus apolinari, 149
platensis, 149, 335–345
Clangula hyemalis, 125
Clark, George A., Jr., review by, 329–330
clutch size
Ortalis vetula mccalli, 391–392
Podilymbus podiceps, 301–302
Coccyzus americanus, 335–345, 391, 473
erythropthalmus, 335–345
Cochlearius cochlearius, 360, 361, 372
Cock-of-the-Rock, Andean, see Rupicola peruviana
Coereba flaveola, 204
Cogswell, Howard L., Water birds of California, reviewed, 470–472
Colaptes auratus, 21–29, 120, 131, 177, 298, 452, 472, 522–529, 571, 578, 652
campestris, 163
rupicola, 163
Colinus virginianus, 290–291, 652–653
v. marilandicus, 653
v. mexicanus, 653
v. taylori, 653
Columba livia, 555, 559, 563
palumbus, 659
community structure, 119–123
Conebill, Cinereous, see Conirostrum cinererum
Rufous-browed, see Conirostrum rufum
Tamarugo, see Conirostrum tamarugensis
White-browed, see Conirostrum ferrugineiventre
Conepatus chinga, 283
Conirostrum cinereum, 446, 448
ferrugineiventre, 446
rufum, 446
tamarugensis, 445–446
Conner, Richard N., see Jackson, Jerome A., Irvine D. Prather, ———, and Sheila Parness Gaby
Conopophagidae, 156
Conservation Committee Report, Management of National Wildlife Refuges in the United States: Its impact on birds, 309–321; Federal Bird Permit Study, 478
Constitution and By-laws of the Wilson Ornithological Society, 474–477
Contopus sordidulus, 120
virens, 155, 450–451, 578
Coot, American, see Fulica americana
European, see Fulica atra
Red-fronted, see Fulica rufifrons
Slate-colored, see Fulica ardesiaca
Cope, James B. and John C. Barber, Caching behavior of Screech Owls in Indiana, 450
Coragyps atratus, 20–24, 141–143
Coregonus clupeaformis, 637
Cormorant, Double-crested, see Phalacrocorax auritus
Great, see Phalacrocorax carbo
Olivaceous, see Phalacrocorax olivaceous
Pelagic, see Phalacrocorax pelagicus
Corvus brachyrhynchos, 8, 20–24, 195, 553–565, 578
corax, 195, 316
ossifragus, 15, 17, 298
Corythopsis, 156
Costa Rica, 138–139
Cotingidae, 156
Coturnicops, 323
Coturnix coturnix, 644
Courtney, Charles H., see Humphrey, Stephen R., ———, and Donald J. Forrester
courtship display
Leucosticte australis, 286–287
Cowbird, Bay-winged, see Molothrus badius
Brown-headed, see Molothrus ater
Screaming, see Molothrus rufoaxillaris
Shiny, see Molothrus bonariensis
coyote, see Canis latrans
Craig, T. H., see Millard, J. B., ———, and O. D. Markham
Crake, Gray-breasted, see Laterallus exilis
Crane, Sandhill, see Grus canadensis
Whooping, see Grus americana
Cranioleuca albicapilla, 448
Crawford, Richard D., Tarsal color of American Coots in relation to age, 536–543
Crawford, Robert L., Autumn bird casualties at a northwest Florida TV tower: 1973–1975, 335–345
Creeper, Brown, see Certhia familaris
Crossbill, Red, see Loxia curvirostra

Crotophaga ani, 148
sulcirostris, 391
Crow, Common, see Corvus brachyrhynchos
Fish, see Corvus ossifragus
Crypturellus strigulosus, 334
Cuckoo, Black-billed, see Coccyzus erythropthalmus
Striped, see Tapera naevia
Yellow-billed, see Coccyzus americanus
Cuckoo-finch, see Anomalospiza imberbis
Cyanocitta cristata, 15–29, 380, 473, 578, 645
stelleri, 120
Cynanthus latirostris, 127
Cynoscion nebulosus, 114–116
Dacnis, Tit-like, see Xenodacnis parina
Daption capense, 504
Daptrius americanus, 334
DDE residues
Lanius ludovicianus, 215–220
deer, mule, see Odocoileus hemionus
white-tailed, see Odocoileus virginianus
defense
territorial
Dendroica tigrina, 297–299
Delacour, Jean, The pheasants of the world, reviewed, 327–328
Dendrocygna bicolor, 99–111
Dendroica adelaidae, 197–214
caerulea, 144, 335–345
caerulescens, 197–214, 335–345, 407, 469
castanea, 143–144, 335–345, 404–413
coronata, 21–25, 121, 143–144, 197–214, 221–238, 297–299, 335–345, 407, 566–574, 578
discolor, 197–214, 335–345, 657
dominica, 197–214
fusca, 144, 335–345, 407–408
graciae, 236
kirtlandii, 293
magnolia, 335–345, 407–408
occidentalis, 472
palmarum, 197–214, 297–299, 335–345
pennsylvanica, 335–345
petechia, 121–122, 197–214, 335–345, 472, 473
pinus, 212
plumbea, 636
striata, 143–144, 197–214
tigrina, 197–214, 297–299, 404–413, 578
townsendi, 472
virens, 578
Dichromanassa rufescens, 125, 471
r. dickeyi, 471
Dickcissel, see Spiza americana
Dickson, James G. and Robert E. Noble, Vertical distribution of birds in a Louisiana bottomland hardwood forest, 19–30
Didelphis albiventris, 283
marsupialis, 393
virginiana, 336
Di Giulio, Richard, see Strader, Robert W., ———, and Robert B. Hamilton
Diglossa carbonaria, 448
Dipodomys, 136
Diuca-Finch, White-winged, see Diuca speculifera
Diuca speculifera, 448
Dolbeer, Richard A., Paul P. Woronecki, Allen R. Stickley, Jr. and Stephen B. White, Agricultural impact of a winter population of blackbirds and starlings, 31–44
Dolichonyx oryzivorus, 94, 335–345, 631
double-broodedness
Progne subis, 239–247
Dove, Eared, see Zenaida auriculata
Mourning, see Zenaida macroura
Rock, see Columba livia
Dow, Douglas D., A test of significance for Mayfield's method of calculating nest success, 291–295
Dowitcher, Short-billed, see Limnodromus griseus
Dunlin, see Calidris alpina
Drymarchon corais erebennus, 393–394
Duck, Black, see Anas rubripes
Mexican, see Anas diazi
Mottled, see Anas fulvigula
Ring-necked, see Aythya collaris
Ruddy, see Oxyura jamaicensis
Wood, see Aix sponsa
Duffin, Kathleen E., review by, 665–666
Dumetella carolinensis, 335–345, 578
Dusicyon gymnocercus, 283
Duzan, Ronald E., see Anderson, William L. and ———
Dryocopus pileatus, 21–29
Dysithamnus mentalis, 140–141

Eagle, Bald, see Haliaeetus leucocephalus
Editorial, 586
egg carrying
  Aix sponsa, 131–132
egg volume, 353–358
eggshell thickness
  Gavia immer, 637–640
  Pandion haliaetus, 115
  Phalacrocorax olivaceus, 640–642
eggshell thinning
  Anhinga anhinga, 608–618
  Cathartes aura, 642–643
  Lanius ludovicianus, 215–220
  Mycteria americana, 608–618
Egret, Cattle, see Bulbulcus ibis
  Great, see Casmerodius albus and Egretta alba
  Reddish, see Dichromanassa rufescens
  Snowy, see Egretta thula
Egretta alba, 360–361, 367, 370–371
  thula, 54, 360, 367, 611
  Elaeniinae, 156
elk, see Cervus canadensis
Emlen, John T., Land bird communities of Grand Bahama Island: The structure and dynamics of an avifauna, reviewed, 468–470
Empidonax sp., 120
  alnorum, 343
  hammondii, 128
  minimus, 578
  traillii, 343
  virescens, 335–345
  wrightii, 472
Endomychura craveri, 470
  hypoleuca, 470
Eremophila alpestris, 128, 287
Erickson, Albert W., see Knight, Richard L. and ———
Erithacus rubecola, 285
escuerzo, see Ceratophrys ornata
Esox lucius, 347
  niger, 637
Eudocimus albus, 112, 125, 611
Eulabaeornis castaneoventris, 322
Euphagus carolinus, 21–29, 34–35, 43
  cyanocephalus, 136
Evans, Roger M., see Nitchuk, Wayne M. and ———
Falco peregrinus, 218
  sparverius, 201, 571
Farrand, John, Jr., see Bull, John and ———
Felis catus, 336
  domestica, 134, 201–203
Finch, Black Rosy, see Leucosticte atrata
  Brown-capped Rosy, see Leucosticte australis
  Cassin's, see Carpodacus cassinii
  Melba, see Pytilia melba
  Purple, see Carpodacus purpureus
  Zebra, see Poephilo guttata
Fjeldsa, Jon, Guide to the young European precocial birds, reviewed, 329–330
Fjetland, Conrad A., Giant Canada Goose incubates eggless nest, 456–457
Fleetwood, Raymond J., see Marion, Wayne R. and ———
Flicker, Andean, see Colaptes rupicola
  Campos, see Colaptes campestris
  Common, see Colaptes auratus
flight display, Leucosticte australis, 287
Florida, 335–345, 521–535, 642–643
Florida caerulea, 52–54, 125, 360–361, 367, 414–417, 611
Fluvicolinae, 156
Flycatcher, Acadian, see Empidonax virescens
  Alder, see Empidonax alnorum
  Fork-tailed, see Muscivora tyrannus
  Gray, see Empidonax wrightii
  Hammond's, see Empidonax hammondii
  Least, see Empidonax minimus
  Olive-sided, see Nuttalornis borealis
  Scissor-tailed, see Muscivora forficata
  Stolid, see Myiarchus stolidus
  Willow, see Empidonax traillii
Foliage-gleaner, Lineated, see Syndactyla subalaris
  Montane, see Anabacerthia striaticollis
food habits
  Agelaius phoeniceus, 35–38, 511–520
  Bubo virginianus, 135
  Molothrus ater, 35–38
  Ortalis vetula, 647–648
  Pelecanus erythrorhynchos, 347–353
  Quiscalus quiscula, 35–38
  Sturnus vulgaris, 35–38
  Tyto alba, 135

food, nestling
Progne subis, 248–260
food piracy
Larus argentatus, 649–650
Stercorarius parasiticus, 649–650
food requirements, Pelecanus erythrorhynchos, 348
foraging ability, age related
Phalacrocorax olivaceus, 414–422
foraging site
Agelaius phoeniceus, 511–520
Formicarius analis, 140–141
Forrester, Donald J., see Humphrey, Stephen R., Charles H. Courtney, and ———
fox, Arctic, see Alopex lagopus
red, see Vulpes fulva
Franzreb, Kathleen E., Tree species used by birds in logged and unlogged mixed-coniferous forests, 221–238
Fraga, Rosendo M., The Rufous-collared Sparrow as a host of the Shiny Cowbird, 271–284
Fringilla coelebs, 401
Fulica americana, 99–111, 445–446, 536–543
ardesiaca, 445–446
atra, 540
rufifrons, 445–446
Fulmar, Northern, see Fulmarus glacialis
Southern, see Fulmarus glacialoides
Southern Giant, see Macronectes giganteus
Fulmarus glacialis, 124
glacialoides, 494, 498–499, 504–510
Fundulus heteroclitus, 589
Furnarius rufus, 272–273
Gaby, Sheila Parness, see Jackson, Jerome A., Irvine D. Prather, Richard N. Conner, and ———
Gadwell, see Anas strepera
Galeichthys felis, 115–116
Gallinula chloropus, 540
melanops, 322
Gallinule, Common, see Gallinula chloropus
Purple, see Porphyrula martinica
Spot-flanked, see Gallinula melanops
Gallus gallus, 356, 554–563
Gannet, see Morus bassana
Gatherer, Firewood, see Anumbius anumbi
Gavia immer, 123, 158, 637–640
stellata, 123
Geothlypis
rostrata, 197–214 (see erratum p. 671)
trichas, 197–214, 335–345, 472, 656–657, 671
Giampa, Vincent, see Wilz, Kenneth J. and ———
Glaucidium minutissimum, 176
Gnatcatcher, Masked, see Polioptila dumicola
Goertz, John W., see Brown, Bryant T. and ———
Gochfeld, Michael and Guy Tudor, Ant-following birds in South American subtropical forests, 139–141
Goldeneye, Common, see Bucephala clangula
Goldfinch, American, see Spinus tristis
gonadal development
Ortalis vetula mccalli, 387–388
Goose, Canada, see Branta canadensis
Lesser Snow, see Chen caerulescens
Hawaiian, see Branta sandvicensis
Snow, see Chen hyperborea
Goshawk, see Accipiter gentilis
Gottfried, Bradley M., An experimental analysis of the interrelationship between nest density and predation in old-field habitats, 643–646
Gould, Stephen Jay, Ontogeny and phylogeny, reviewed, 151–152
Grackle, Boat-tailed, see Quiscalus major
Common, see Quiscalus quiscula
Great-tailed, see Quiscalus mexicanus
Grebe, Atitlan, see Podilymbus gigas
Horned, see Podiceps auritus
Least, see Podiceps dominicus
Pied-billed, see Podilymbus podiceps
Greenlet, Rufous-naped, see Hylophilus semibrunneus
Grosbeak, Rose-breasted, see Pheucticus ludovicianus
Ground-tyrant, Plain-capped, see Muscisaxicola alpina grisea
Rufous-naped, see Muscisaxicola rufiventrix
White-browed, see Muscisaxicola albilora
Grouse, Red, see Lagopus lagopus scoticus
Ruffed, see Bonasa umbellus

Sharp-tailed, see Pedioecetes phasianellus
Spruce, see Canachites canadensis
growth
Aphelocoma coerulescens, 1–18
Grus americana, 309–310, 313, 316–317, 331, 351
canadensis, 126, 312, 351, 396, 400
c. tabida, 311–316
Guan, White-winged, see Penelope albipennis
Gull, California, see Larus californicus
Franklin's, see Larus pipixcan
Glaucous, see Larus hyperboreus
Glaucous-winged, see Larus glaucescens
Great Black-backed, see Larus marinus
Herring, see Larus argentatus
Iceland, see Larus glaucoides
Laughing, see Larus atricilla
Mew, see Larus canus
Ring-billed, see Larus delawarensis
Sabine's, see Xema sabini
Southern Black-backed, see Larus dominicanus
Thayer's, see Larus thayeri
Western, see Larus occidentalis
Gymnorhinus cyanocephalus, 1–9, 16–17, 129
Habia cristata, 139–141
habitat selection
Agelaius phoeniceus, 619–634
habitat shift
Piranga olivacea, 575–586
habitat use
Dendroica coronata, 565–574
Haematopus bachmani, 126, 650–652
ostralegus, 651
o. finschi, 651
unicolor, 651
Haemophila carpalis, 328
humeralis, 328
mysticalis, 328
ruficauda, 328
sumichrasti, 328
Haffer, Jurgen, review by, 332–334
Hahn, D. Caldwell, see Burger, Joanna, Lynne M. Miller, and ———
Hailman, Jack P., Optical signals: Animal communication and light, reviewed, 153
Haliaeetus leucocephalus, 218
Hall, George A., review by, 325–327
Halley, Marc R. and Wayne D. Lord, A Cattle Egret-deer mutualism, 291
Hamilton, Robert B., see Strader, Robert W., Richard Di Giulio, and ———; see Ortego, Brent and ———
Hardy, John William and Ben B. Coffey, Jr., The wrens, Record # ARA-2, reviewed, 148–150
hare, snowshoe, see Lepus americanus
Harmon, Keith W., see Braun, Clait E., ———, Jerome A. Jackson and Carroll D. Littlefield
Harrier, Cinereous, see Circus cinereous
Eurasian Marsh, see Circus aeruginosus
Long-winged, see Circus buffoni
Montagu's, see Circus pygargus
Hartwick, E. B., The use of feeding areas outside of the territory of breeding Black Oystercatchers, 650–652
Hartshorne, Charles, review by, 153–155
hatching asynchrony
Agelaius phoeniceus, 653–655
hatching success
Anhinga anhinga, 370
Hawk, Broad-winged, see Buteo platypterus
Cooper's, see Accipiter cooperii
Ferruginous, see Buteo regalis
Marsh, see Circus cyaneus
Red-shouldered, see Buteo lineatus
Red-tailed, see Buteo jamaicensis
Rough-legged, see Buteo lagopus
Sharp-shinned, see Accipiter striatus
Swainson's, see Buteo swainsoni
Helmitheros vermivorus, 335–345
Helminth parasite community ecology in Pelecanus occidentalis, 587–598
Hendricks, Paul, Notes on the courtship behavior of Brown-capped Rosy Finches, 285–287
Henicorhina leucosticta, 140–141
Heron, Black-crowned Night, see Nycticorax nycticorax
Boat-billed, see Cochlearius cochlearius
Great Blue, see Ardea herodias
Green, see Butorides virescens
Little Blue, see Florida caerulea
Louisiana, see Hydranassa tricolor
Squacco, see Ardeola ralloides
Striated Green, see Butorides striatus

Yellow-crowned Night, see Nyctanassa violacea
Herpestes javanicus, 201–203
Heteroscelus incanus, 126
Heusmann, H. W. and Robert Bellville, Effects of nest removal on Starling populations, 287–290
Himantornis, 322
Hinshaw, Janet, Serial publications currently received by the Josselyn Van Tyne Memorial Library, 671–676
Hirundo rustica, 396–403, 578
Hochbaum, George and Garth Ball, An aggressive encounter between a Pintail with a brood and a Franklin Gull, 455
Holmes, Richard T., see Zumeta, David C. and ———
Hornero, Rufous, see Furnarius rufus
Honeycreeper, Carbonated, see Diglossa carbonaria
host of, Molothrus bonariensis, 271–284
Tapera naevia, 138–139
Hubbard, John P., The biological and taxonomic status of the Mexican Duck, reviewed, 155
Hughes, R. A., see Tallman, Dan A., Theodore A. Parker, III, Gary D. Lester, and ———
Hummingbird, Allen's, see Selasphorus sasin
Black-chinned, see Archilochus alexandri
Blue-throated, see Lampornis clemenciae
Broad-billed, see Cynanathus latirostris
Broad-tailed, see Selasphorus platycercus
Calliope, see Stellula calliope
Lucifer, see Calothorax lucifer
Ruby-throated, see Archilochus colubris
Violet-crowned, see Amazilia verticalis
Humphrey, Philip S. and Roger Tory Peterson, Nesting behavior and affinities of Monk Parakeets of southern Buenos Aires Province, Argentina, 544–552
Humphrey, Stephen R., Charles H. Courtney, and Donald J. Forrester, Community ecology of the helminth parasites of the Brown Pelican, 587–598
Hunt, L. Barrie, Extreme nesting dates for the Mourning Dove in central Illinois, 458–460
Hurst, George A., Unusual incubation behavior in Bobwhite, 290–291
Hutton, Anne E., Spatial relationships in perching Barn and Cliff swallows, 396–403
hybrid warbler, 143–144
Hydranassa tricolor, 45–59, 125, 360–361, 370, 471, 611
Hydrurga leptonyx, 493, 504
Hylocichla mustelina, 335–345, 407
Hylochilus, 149
Hylophilus semibrunneus, 140–141
Ibis, Glossy, see Plegadis falcinellus
White, see Eudocimus albus
Ictalurus nebulosus, 450
Icteria virens, 472
Icterus cucullatus, 472
galbula, 335–345, 578
gradacauda, 326
parisorum, 472
pectoralis, 298
spurius, 343
Ictiobus cyprinellus, 347
Illinois, 458–460
incubation
Hydranassa tricolor, 54–55
Ortalis vetula mccalli, 392
insect outbreaks, 404–413
Ithaginis cruentus, 328
Ixobrychus exilis, 125, 611
Jabiru mycteria, 551
jackrabbit, black-tailed, see Lepus californicus
Jackson, Jerome A., Irvine D. Prather, Richard N. Conner, and Sheila Parness Gaby, Fishing behavior of Black and Turkey vultures, 141–143; see Braun, Clait E., Keith W. Harmon, ——— and Carroll D. Littlefield Editorial, 586
Jaeger, Long-tailed, see Stercorarius longicaudus
Parasitic, see Stercorarius parasiticus
Pomarine, see Stercorarius pomarinus
James, Douglas, President's Page, 306–308, 463, 669–670; see White, Donald H. and ———
Jay, Blue, see Cyanocitta cristata

Florida Scrub, see Aphelocoma coerulescens
Pinon, see Gymnorhinus cyanocephalus
Steller's, see Cyanocitta stelleri
Joanen, Ted, see Nesbitt, Stephen A., Lovett E. Williams, Jr., Larry McNease, and ———
Johnson, Ned K., review by, 145–147
Johnson, Robert F., and Norman F. Sloan. White Pelican production and survival of young at Chase Lake National Wildlife Refuge, North Dakota, 346–352
Jones, H. Lee, review by, 470–472; see Powell, George V. N. and ———
Junco, Dark-eyed, see Junco hyemalis
Gray-headed, see Junco caniceps
Junco caniceps, 221–238, 472
hyemalis, 121–122, 407, 572, 578
Kaiser, T. Earl, see Ohlendorf, Harry M., Erwin E. Klass, and ———
Karr, James R., review by, 468–470
Keith, Stuart, review by, 148–150; 322–325
Kelly, Alice H., Birds of southeastern Michigan and southwestern Ontario, reviewed, 663
Kestrel, American, see Falco sparverius
Kiff, Lloyd F. and Andrew Williams, Host records for the Striped Cuckoo from Costa Rica, 138–139
Kilham, Lawrence, Sexual similarity of Red-headed Woodpeckers and possible explanations based on fall territorial behavior, 285
Killdeer, see Charadrius vociferus
Kingbird, Eastern, see Tyrannus tyrannus
Tropical, see Tyrannus melancholicus
Western, see Tyrannus verticalis
Kingfisher, Green, see Chloroceryle americana
Kinglet, Golden-crowned, see Regulus satrapa
Ruby-crowned, see Regulus calendula
Klass, Erwin E., see Ohlendorf, Harry M., ———, and T. Earl Kaiser
Knight, Richard L. and Albert W. Erickson, Canada Goose-Great Blue Heron-Great Horned Owl nesting associations, 455–456
Knot, Red, see Calidris canutus
Lagopus lagopus scoticus, 356
Lampornis clemenciae, 127
Landin, Mary C., Screech Owl predation on a Common Flicker nest, 652
Lanius excubitor, 571
ludovicianus, 6, 215–220, 525
Lark, Horned, see Eremophila alpestris
Larus argentatus, 300, 304–305, 326, 356, 396, 479–491, 649
atricilla, 304, 331, 472
californicus, 316
canus, 649
delawarensis, 299–301
dominicanus, 494, 504–510
glaucescens, 127
glaucoides, 479
hyperboreus, 479–481, 649
marinus, 304–305
occidentalis, 326, 471
pipixcan, 455, 472
thayeri, 479–491
larynx, Corvus brachyrhynchos, 553–565
Laterallus exilis, 334
jamaicensis, 324
spilonotus, 324
Lebistes reticulatus, 589
Lepus americanus, 192
californicus, 316
Lester, Gary D., see Tallman, Dan A., Theodore A. Parker III, ———, and R. A. Hughes
Leucosticte, 446
atrata, 286–287
australis, 285–287
Limnodromus griseus, 71–72, 79–83
Limnothlypis swainsonii, 335–345
Littlefield, Carroll D., see Braun, Clait E., Keith W. Harmon, Jerome A. Jackson and ———
Liversidge, R., see McLachlan, G. R. and ———
Loon, Common, see Gavia immer
Red-throated, see Gavia stellata
Lophodytes cucullatus, 288
Lorikeet, Rainbow, see Trichoglossus haematodus
Louisiana, 261–270, 438–441, 443–445
Low, Rosemary, Lories and lorikeets, reviewed, 663–665
Loxia curvirostra, 121

Macaca mulatta, 197, 201
macaque, rhesus, see Macaca mulatta
Mace, Terrence R., Killdeer nesting densities, 442–443
Machetornis rixosus, 272–273
Macronectes giganteus, 494–510
Magpie, Black-billed, see Pica pica
Mallard, see Anas platyrhynchos
Marion, Wayne R., and Raymond J. Fleetwood, Nesting ecology of the Plain Chachalaca in south Texas, 386–395
Markham, O. D., see Millard, J. B., T. H. Craig, and ———
Martin, Purple, see Progne subis
mate selection
  Hydranassa tricolor, 49–52
Mather, Thomas N., Canada Goose takes over Mallard nest, 646–647
maturation
  Larus thayeri, 479–491
Maxson, Stephen J., Evidence of brood adoption by Ruffed Grouse, 132–133
Meadowlark, Eastern, see Sturnella magna
  Western, see Sturnella neglecta
McLachlan, G. R. and R. Liversidge, Roberts birds of South Africa, reviewed, 667–668
McNease, Larry, see Nesbitt, Stephen A., Lovett E. Williams, Jr., ———, and Ted Joanen
meetings and conferences
  1978 annual meeting, 157
  1979 Annual Wilson Ornithological Society Meeting announcement, 478
  Colonial Waterbird Group, 158
  International Symposium on the Vultures, 672
  North American Conference on Loons, 158
  Symposium on Birds of the Sea and Shore, 671
Melanerpes aurifrons, 176–177, 452
  a. aurifrons, 177
  a. dubius, 177
  a. polygrammus, 177
  a. santacruzi, 177
  carolinus, 21–25, 131, 298, 325, 452, 521–535
  erythrocephalus, 21–29, 131, 285, 450–452, 521–535
  formicivorus, 521–535
  lewis, 521–535
  uropygialis, 451–455
Melanitta deglandi, 125–126
Melopsittacus undulatus, 295
Melospiza lincolnii, 473
  melodia, 92, 154, 473
Melozone, 329
membership announcement, 478
Merganser, Hooded, see Lophodytes cucullatus
Mephitis mephitis, 316
Metallura tyrianthia, 448
Metaltail, Tyrian, see Metallura tyrianthia
Mexico, 159–181, 359–375
Microcerculus marginatus, 155
Micropalama himantopus, 79–83, 126
Micropygia, 323
Microtus, 136
migration, 336–339
Millard, J. B., T. H. Craig, and O. D. Markham, Cannibalism by an adult Great Horned Owl, 449
Miller, Lynne M., see Burger, Joanna, ———, and D. Caldwell Hahn
Milvago chimango, 283
Mimus polyglottos, 21–25, 298, 380, 525, 527
  saturninus, 271–278
Mississippi, 438–441
Mniotilta varia, 197–214, 335–345
Mockingbird, Chalk-browed, see Mimus saturninus
  Northern, see Mimus polyglottos
Molothrus ater, 7, 21–26, 31–44, 353–358, 578–579, 655–656
  badius, 271
  bonariensis, 271–284
  rufoaxillaris, 271
Momotus lessoni, 169
mongoose, see Herpestes javanicus
moose, see Alces alces
Morrison, Michael L., R. Douglas Slack and Edwin Shanley, Jr., Age and foraging ability relationships of Olivaceous Cormorants, 414–422; ———, R. Douglas Slack and Edwin Shanley, Jr., Declines in environmental pollutants in Olivaceous Cor-

morant eggs from Texas, 1970–1977, 640–642
Morrison, R. I. G., Herring Gulls stealing prey from Parasitic Jaegers, 649–650
Morse, Douglass H., Populations of Bay-breasted and Cape May warblers during an outbreak of the spruce budworm, 404–413
mortality
Aphelocoma coerulescens, 11–13
Molothrus ater, 655–656
Phalacrocorax olivaceous, 420
Piranga olivacea, 575–586
Quiscalus quiscula, 655–656
Sturnus vulgaris, 655–656
Morus bassana, 351
Moskovits, Debra, Winter territorial and foraging behavior of Red-headed Woodpeckers in Florida, 521–535
mouse, house, see Mus musculus
Motmot, Blue-crowned, see Momotus lessoni
Mueller, Helmut C., review by, 661–662
Mugil cephalus, 114–115
Murrelet, Ancient, see Synthliboramphus antiquum
Craveri's, see Endomychura craveri
Xantus', see Endomychura hypoleuca
Murton, R. K. and N. J. Westwood, Avian breeding cycles, reviewed, 658–660
Muscisaxicola albilora, 448
alpina grisea, 448
cinerea, 448
rufiventix, 448
Muscivora forficata, 128, 380
tyrannus, 272–273
Mus musculus, 201
Mustela erminea, 134
frenata, 136
mutualism
Bubulcus ibis—Odocoileus virginianus, 291
Myadestes townsendii, 121
Mycteria americana, 608–618
Myiarchus stolidus, 204
Myiopsitta monachus, 544–552
m. catita, 548
m. cotorra, 548–549
m. monachus, 547–549
Myiotheretes erythropygius, 448
Myrmeciza immaculata, 140–141
Myrmotherula schisticolor, 140–141
Neocrex, 323
Nesbitt, Stephen A., Lovett E. Williams, Jr., Larry McNease, and Ted Joanen, Brown Pelican restocking efforts in Louisiana, 443–445
nest, abandonment
Pelecanus erythrorhynchos, 347–352
building
Hydranassa tricolor, 53–54
density
Accipiter cooperii, 185–187
A. gentilis, 185–187
A. striatus, 185–187
interrelationship with predation, 643–646
desertion
Zonotrichia capensis, 280
maintenance
Anhinga anhinga, 367–368
placement
Oreoscoptes montanus, 303
Podilymbus podiceps, 301–302
relief
Anhinga anhinga, 365–366
removal
Sturnus vulgaris, 287–290
site
Ortalis vetula mccalli, 390
site selection
Agelaius phoeniceus, 261–270; 457–458
Anhinga anhinga, 361–362
Catoptrophorus semipalmatus, 599–607
site tenacity
Accipiter cooperii, 187–188
A. gentilis, 187–188
A. striatus, 187–188
structure
Anhinga anhinga, 367–368
success
Anhinga anhinga, 372
calculation of, 291–295
Lanius ludovicianus, 218
nesting chronology
Zenaida macroura, 458–460
success
Agelaius phoeniceus, 457–458
Ortalis vetula mccalli, 393–394
Zonotrichia capensis, 282–283

nestling survival
Agelaius phoeniceus, 653–655
New Jersey, 599–607
Niche
breadth
Dendroica coronata, 231
Junco caniceps, 231
Parus gambeli, 231
Regulus calendula, 231
Sphyrapicus varius, 231
differentiation
Agelaius phoeniceus, 40–41
Molothrus ater, 40–41
Quiscalus quiscula, 40–41
Sturnus vulgaris, 40–41
realized
Anatidae, 99–111
Nighthawk, Common, see Chordeiles minor
Nightjar, Buff-collared, see Caprimulgus ridgwayi
Nitchuk, Wayne M. and Roger M. Evans, A volumetric analysis of Sharp-tailed Grouse sperm in relation to dancing ground size and organization, 460–462
Noble, Robert E., see Dickson, James G. and ———
Nolan, Val Jr., and Charles F. Thompson, Egg volume as a predictor of hatchling weight in the Brown-headed Cowbird, 353–358
North Dakota, 346–352
Nucifraga columbiana, 128–129
Numenius phaeopus, 65, 79–83
numerical coding system, 157
Nutcracker, Clark's, see Nucifraga columbiana
Nuthatch, Brown-headed, see Sitta pusilla
Pygmy, see Sitta pygmaea
Red-breasted, see Sitta canadensis
White-breasted, see Sitta carolinensis
Nuttalornis borealis, 120, 578
Nyctanassa violacea, 360
Nycticorax nycticorax, 360, 610, 616
Oceanites oceanicus, 494, 501, 504–510
Odocoileus hemionus, 312
virginianus, 291
Odontorchilus, 149
Ogburn, Charlton, The adventure of birds, reviewed, 665–666
Ogilvie, M. A., Wild geese, reviewed, 663
Ohlendorf, Harry M., Erwin E. Klass and T. Earl Kaiser, Organochlorine residues and eggshell thinning in Wood Storks and Anhingas, 608–618
Oldsquaw, see Clangula hyemalis
Olor buccinator, 316
O'Neill, John P. and Theodore A. Parker, III, Responses of birds to a snowstorm in the Andes of southern Peru, 446–449
Oporornis formosus, 21–29
philadelphia, 326–327
Opposum, see Didelphis marisupialis
Virginia, see Didelphis virginiana
White-eared, see Didelphis albiventris
Oregon, 182–196
Oreoscoptes montanus, 303
organochlorine residues in eggs of,
Anhinga anhinga, 608–618
Mycteria americana, 608–618
Oring, Lewis W., review by, 663
Oriole, African Black-headed, see Oriolus larvatus
Black-headed, see Icterus gradacauda
Hooded, see Icterus cucullatus
Northern, see Icterus galbula
Orchard, see Icterus spurius
Scott's, see Icterus parisorum
Spot-breasted, see Icterus pectoralis
Oriolus larvatus, 326
Oriturus, 329
Ortalis garrula, 386
ruficauda, 386
vetula, 647–648
v. mccalli, 386–395
Ortego, Brent and Robert B. Hamilton, Nesting success and nest site selection of Red-winged Blackbirds in a freshwater swamp, 457–458
Ostrich, see Struthio camelus
Ovenbird, see Seiurus aurocapillus
Otus asio, 450, 652
Owen, Myrfyn, Wildfowl of Europe, reviewed, 150–151
Owl, Barn, see Tyto alba
Burrowing, see Athene cunicularia
Great Horned, see Bubo virginianus
Least Pygmy, see Glaucidium minutissimum

Long-eared, see Asio otus
Screech, see Otus asio
Short-eared, see Asio flammeus
Tawny, see Strix aluco
Oxyura jamaicensis, 99–111
Oystercatcher, Black, see Haematopus bachmani
Common, see Haematopus ostralegus
Sooty, see Haematopus unicolor
Pachyptila spp., 504
Pagodroma nivea, 494, 499–501, 504–510
Pandion haliaetus, 112–118, 456
Parakeet, Monk, see Myiopsitta monachus
Parker, Theodore A., III, see Tallman, Dan A., ———, Gary D. Lester, and R. A. Hughes; see O'Neill, John P. and ———
Parkes, Kenneth C., review by, 147–148
Parmelee, David F., see Sutton, George M. and ———
Parr, Delbert E. and M. Douglas Scott, Analysis of roosting counts as an index to Wood Duck population size, 423–437
Parula, Northern, see Parula americana
Parula americana, 197–214, 298, 335–345, 407
Parus atricapillus, 233–238, 571
bicolor, 21–25, 327
carolinensis, 21–25, 233–238
gambeli, 120–132, 221–238
major, 257–260, 356
Passer domesticus, 40, 42, 242, 295, 380, 658
Passerculus sandwichensis, 335–345, 632
Passerella iliaca, 121–122, 130
Passerina amoena, 326
cyanea, 130, 326, 335–345
versicolor, 130
v. dickeyae, 130
Payne, John R., W. H. Hudson, a bibliography, reviewed, 155
Payne, Robert B., review by, 666–668
Paynter, Raymond A., Jr., and Alastair M. G. Caperton, Ornithological gazetteer of Paraguay, reviewed, 147–148
peccary, see Catagonus wagleri
Pedioecetes phasianellus, 460–462
Pelecanus erythrorhynchos, 346–352, 444, 590
occidentalis, 112, 218, 414, 443–445, 587–598, 608, 640
onocrotalus, 349
Pelican, Brown, see Pelecanus occidentalis
Great White, see Pelecanus onocrotalus
White, see Pelecanus erythrorhynchos
Penelope albipennis, 334
Penguin, Adelie, see Pygoscelis adeliae
Chinstrap, see Pygoscelis antarctica
Emperor, see Aptenodytes forsteri
Pence, Danny B., see Christensen, Zan D., ———, and Gretchen Scott
Perca flavescens, 637
Peregrine, see Falco peregrinus
Peromyscus, 136
Peru, 445–449
pesticide analysis
Pandion haliaetus, 115–116
Peterson, Roger Tory, see Humphrey, Philip S. and ———
Petrel, Antarctic, see Thalassoica antarctica
Snow, see Pagodroma nivea
Petrochelidon pyrrhonota, 396–403, 473
Pewee, Eastern Wood, see Contopus virens
Western Wood, see Contopus sordidulus
Phalaenoptilus nuttallii, 472
Phalacrocorax aristotelis, 419
auritus, 418–419, 470, 491, 608, 641
carbo, 419
olivaceous, 360–361, 370, 640–642
pelagicus, 419
Pheasant, Great Argus, see Argusianus argus
Himalayan Blood, see Ithaginis cruentus
Pheucticus ludovicianus, 130, 154, 407
Philomachus pugnax, 326, 331
Phoebe, Eastern, see Sayornis phoebe
Phrygilus gayi, 447
plebejus, 447
unicolor, 447
Pica pica, 8, 316
Picoides albolarvatus, 120, 176
arcticus, 120
borealis, 176, 315
pubescens, 165, 571
stricklandi, 164
villosus, 120, 473, 525
Piculus auricularis, 159–181
a. auricularis, 159–181

a. sonoriensis, 159–181
rubiginosus, 159–181
r. aeruginosus, 159–181
r. maximus, 159–181
r. trinitatis, 163
r. uropygialis, 163
r. yucatanensis, 159–181
Pigeon, Cape, see Daption capense
Wood, see Columba palumbus
Pinkowski, Benedict C., Feeding of nestling and fledgling Eastern Bluebirds, 84–98
Pintail, see Anas acuta
Pipilo, 329
chlorusa, 121–122, 472
erythrophthalmus, 21–26, 472
Piranga ludoviciana, 121
olivacea, 335–345, 575–586
rubra, 335–345
Plectorhyncha, 555
Plegadis falcinellus, 611
Plover, American Golden, see Pluvialis dominica
Black-bellied, see Pluvialis squatarola
Mountain, see Charadrius montanus
Piping, see Charadrius melodus
Semipalmated, see Charadrius semipalmatus
plumage
Hydranassa tricolor, 45–46
Pluvialis dominica, 63–64, 79–83
squatarola, 63, 79–83
Podiceps auritus, 123–124, 301
dominicus, 471
Podilymbus gigas, 301
podiceps, 301–302
Poephilo guttata, 295–297
Polioptila dumicola, 273
polygyny
Geothlypis trichas, 656–657
Pooecetes gramineus, 92
Poorwill, see Phalaenoptilus nuttallii
Porphyrula martinica, 540
Portnoy, John W., Black Skimmer abundance on the Louisiana-Mississippi-Alabama coast, 438–441
Porzana, 322
carolina, 540
post-fire succession, 119–123
Post, William, Social and foraging behavior of warblers wintering in Puerto Rican coastal scrub, 197–214; Erratum, 671
Powell, George V. N. and H. Lee Jones, An observation of polygyny in the Common Yellowthroat, 656–657
Prather, Irvine D., see Jackson, Jerome A., ———, Richard N. Conner, and Sheila Parness Gaby
predation ecology
Bubo virginianus, 134–137
Tyto alba, 134–137
in old field habitats, 643–646
interrelationship with nest density, 643–646
Premnoplex brunnescens, 140–141
President's Page, 306–308, 463, 669–670
prion, see Pachyptila spp.
Procyon lotor, 57, 316, 393
production
Pelecanus erythrorhynchos, 346–352
Progne subis, 118, 239–260, 376–385
pronghorn, see Antilocapra americana
Protonotaria citrea, 129, 197–214, 335–345
Psophia crepitans, 334
leucoptera, 334
Pterophanes cyanopterus, 448
Puerto Rico, 197–214
Pygoscelis adeliae, 414, 496–497, 504–510
antarctica, 494, 497–498, 504–510
Pyrrhocorax graculus, 134
Pytilia melba, 668
Quail, Japanese, see Coturnix coturnix
Tawny-faced, see Rhynchortyx cinctus
Quiscalus major, 57
mexicanus, 130, 380
quiscula, 7, 20–21, 31–44, 356, 380, 525–528, 578, 655–656
Raccoon, see Procyon lotor
Raikow, Robert J., reviews by, 150–153, 155–156, 327–328, 660–661, 663
Rail, Black, see Laterallus jamaicensis
Chestnut, see Eulabacornis castaneoventris
Galapagos, see Laterallus spilonotus
Red-necked, see Rallina tricolor
Rouget's, see Rougetius rougetii
Virginia, see Rallus limicola
Rallina tricolor, 324
Rallus limicola, 126

Ramphastos carinatos, 169
Raphael, Martin, see Bock, Carl E., ———, and Jane E. Bock
rat, Norway, see Rattus norvegicus
Rattus norvegicus, 201
Raven, Common, see Corvus corax
Rea, Amadeo M., review by, 472–473
Redhead, see Aythya americana
Redpoll, Common, see Acanthis flammea and Carduelis flammea
Redstart, American, see Setophaga ruticilla
Regulus calendula, 21–25, 221–238, 335–345, 407
  satrapa, 121, 407, 472
reproductive success
  Pandion haliaetus, 112–118
requests for assistance
  Cathartes aura, 18
  Charadriiformes, 30
  Progne subis, 118
Reynolds, Richard T. and Howard M. Wight, Distribution, density and productivity of Accipiter hawks breeding in Oregon, 182–196
Rich, Terrell D. G., Nest placement in Sage Thrashers, 303
Ripley, S. Dillon, Rails of the world, reviewed, 322–325
Rhynchortyx cinctus, 334
Robin, American, see Turdus migratorius
  British, see Erithacus rubecola
Rodgers, James A., Jr., Breeding behavior of the Louisiana Heron, 45–59
roost
  Aix sponsa, 423–437
Roth, Roland R., Attacks on Red-headed Woodpeckers by flycatchers, 450–451
Rougetius rougetii, 324
Rudolph, Seri G., Predation ecology of coexisting Great Horned and Barn owls, 134–137
Ruff, see Philomachus pugnax
Rupicola peruviana, 140–141
Ruppell, Georg, Bird Flight, reviewed, 660–661
Russell, Stephen M., Notes on the distribution of birds in Sonora, Mexico, 123–131
Ryan, Michael J., Mirror image versus conspecific stimulation in adult male Zebra Finches, 295–297
Rynchops niger, 127, 304, 438–441
Salmo salar, 637
Saltator, Golden-billed, see Saltator aurantiirostris
Saltator aurantiirostris, 448
Salvelinus namaycush, 637
Sanderling, see Calidris alba
Sandpiper, Baird's, see Calidris bairdii
  Least, see Calidris minutilla
  Pectoral, see Calidris melanotos
  Semipalmated, see Calidris pusilla
  Solitary, see Tringa solitaria
  Spotted, see Actitis macularia
  Stilt, see Micropalama himantopus
  Upland, see Bartramia longicauda
  Western, see Calidris mauri
  White-rumped, see Calidris fuscicollis
Sapphire-wing, Paramo, see Pterophanes cyanopterus
Sapsucker, Williamson's, see Sphyrapicus thyroideus
  Yellow-bellied, see Sphyrapicus varius
Sarothrura, 323
Saver, Gordon C., John Gould bird print reproductions, reviewed, 155
Sayornis phoebe, 578
Scaup, Lesser, see Aythya affinis
Scoter, White-winged, see Melanitta deglandi
Scott, Gretchen, see Christensen, Zan D., Danny B. Pence, and ———
Scott, M. Douglas, see Parr, Delbert E. and ———
seal, leopard, see Hydrurga leptonyx
Sealy, Spencer G., Clutch size and nest placement of the Pied-billed Grebe in Manitoba, 301–302
Seedsnipe, Gray-breasted, see Thinocorus orbignyianus
Sciurus aurocapillus, 129, 197–214, 335–345, 407–408
  motacilla, 197–214, 343
  noveboracensis, 197–214, 335–345
Selasphorus platycercus, 127
  sasin, 128
Setophaga ruticilla, 197–214, 335–345
sex ratio
  Ortalis vetula mccalli, 387

sex roles
Anhinga anhinga, 359–375
sexual maturity
Ortalis vetula mccalli, 388–389
Shag, see Phalacrocorax aristotelis
Shanley, Edwin Jr., see Morrison, Michael L., R. Douglas Slack, and ———
Shisler, Joseph, see Burger, Joanna and ———
Shoveler, Northern, see Anas clypeata
Shrike, Loggerhead, see Lanius ludovicianus
Northern, see Lanius excubitor
Sialia currucoides, 94, 120, 122, 326, 472
sialis, 84–98, 578
Sierra-Finch, Ash-breasted, see Phrygilus plebejus
Gray-headed, see Phrygilus gayi
Plumbeous, see Phrygilus unicolor
Sierra Nevada, 119–123
Simon, Hilda, The courtship of birds, reviewed, 330–332
Siskin, Pine, see Carduelis pinus
Sitta canadensis, 120
carolinensis, 120, 472
pygmaea, 120, 472
pusilla, 203, 212
Skimmer, Black, see Rynchops niger
Skua, Brown, see Catharacta lonnbergi
South Polar, see Catharacta maccormicki
skunk, hog-nosed, see Conepatus chinga
striped, see Mephitis mephitis
Slack, R. Douglas, see Morrison, Michael L., ———, and Edwin Shanley, Jr.
Sladen, William J. C., see Ainley, David G., Robert C. Wood, and ———
Sloan, Norman F., see Johnson, Robert F., and ———
Snyder, Noel F. R. and James W. Wiley, Sexual size dimorphism in hawks and owls of North America, reviewed, 145–147
Solitaire, Townsend's, see Myadestes townsendii
Sonora, Mexico, 123–131
Sora, see Porzana carolina
Sorex, 136
South America, 139–141
Southern, William E., Ring-billed Gull pair with 2 nests, 299–301
Spaans, Arie L., Status and numerical fluctuations of some North American waders along the Surinam coast, 60–83
Sparrow, Bachman's, see Aimophila aestivalis
Brewer's, see Spizella breweri
Chipping, see Spizella passerina
Dusky Seaside, see Ammospiza nigrescens
Field, see Spizella pusilla
Fox, see Passerella iliaca
Golden-crowned, see Zonotrichia atricapilla
Grassshopper, see Ammodramus savannarum
Henslow's, see Ammodramus henslowii
House, see Passer domesticus
Lark, see Chondestes grammacus
Lincoln's, see Melospiza lincolnii
Rufous-collared, see Zonotrichia capensis
Savannah, see Passerculus sandwichensis
Song, see Melospiza melodia
Tree, see Spizella arborea
Vesper, see Pooecetes gramineus
White-throated, see Zonotrichia albicollis
Sphyrapicus thyroideus, 120, 128, 472
varius, 21–25, 120, 221–238, 285
v. ruber, 285
v. varius, 285
Spinetail, Creamy-crested, see Cranioleuca albicapilla
Pale-breasted, see Synallaxis albescens
Rufous-breasted, see Synallaxis erythrothorax
Spinus tristus, 21–29
Spiza americana, 473, 632
Spizella arborea, 518, 571–572
breweri, 121
passerina, 92, 121, 578
pusilla, 335–345, 644
Spoonbill, Roseate, see Ajaia ajaja
Starling, see Sturnus vulgaris
Stelgidopteryx ruficollis, 473
Stellula calliope, 128
Sterna albifrons, 127
hirundo, 127, 304
maxima, 414
paradisaea, 504–505
sandvicensis, 414, 417

Stercorarius longicaudus, 649
parasiticus, 127, 649
pomarinus, 126–127, 470
Stevenson, Henry M., Vertebrates of Florida, reviewed, 150
Stewart, Paul A., Weather related mortality of blackbirds and Starlings in a Kentucky roosting congregation, 655–656
Stizostedion vitreum, 347
stoat, see Mustela erminea
Storer, Robert W., review by, 328–329
Stork, Jabiru, see Jabiru mycteria
Wood, see Mycteria americana
Storm-Petrel, Wilson's, see Oceanites oceanicus
Strader, Robert W., Richard Di Giulio, and Robert B. Hamilton, Egg carrying by Wood Duck, 131–132
Stickley, Allen R. Jr., see Dolbeer, Richard A., Paul P. Woronecki, ———, and Stephen B. White
Strehl, Charles, Asynchrony of hatching in Red-winged Blackbirds and survival of late and early hatching birds, 653–655
Strix aluco, 659
Struthio camelus, 331
Sturnella magna, 578
neglecta, 473
Sturnus vulgaris, 31–44, 129, 287–290, 298, 380, 454, 571, 578–579, 655–656
Sunbeam, Shining, see Aglaeactis cupripennis
White-tufted, see Aglaeactis castelnaudii
Surinam, 60–83
Sutton, George M., frontispiece facing 159 and facing 479; Fifty common birds of Oklahoma and the southern Great Plains, reviewed, 473; ——— and David F. Parmelee, On maturation of Thayer's Gull, 479–491
Swallow, Barn, see Hirundo rustica
Cliff, see Petrochelidon pyrrhonota
Mangrove, see Tachycineta albilinea
Rough-winged, see Stelgidopteryx ruficollis
Violet-green, see Tachycineta thalassina
Swan, Trumpeter, see Olor buccinator
Sylvilagus, 136
Synallaxis albescens, 138–139
erythrothorax, 138
Syndactyla subalaris, 139–141
Synthliboramphus antiquum, 470
Szaro, Robert C., Reproductive success and foraging behavior of the Osprey at Seahorse Key, Florida, 112–118
Tachycineta albilinea, 128
thalassina, 128
Tadarida brasiliensis, 136
Tallman, Dan A., Theodore A. Parker, III, Gary D. Lester, and R. A. Hughes, Notes on 2 species of birds previously unreported from Peru, 445–446
Tanager, Golden, see Tangara arthus
Scarlet, see Piranga olivacea
Summer, see Piranga rubra
Western, see Piranga ludoviciana
Tangara arthus, 140–141
Tapera naevia, 138–139
n. chochi, 139
n. excellens, 138
n. naevia, 139
tarsal color
Fulica americana, 536–543
Tattler, Wandering, see Heteroscelus incanus
Teal, Blue-winged, see Anas discors
Cinnamon, see Anas cyanoptera
Green-winged, see Anas crecca
Speckled, see Anas flavirostris
Tern, Arctic, see Sterna paradisaea
Black, see Chlidonias niger
Common, see Sterna hirundo
Least, see Sterna albifrons
Royal, see Sterna maxima
Sandwich, see Sterna sandvicensis
territory
Hydranassa tricolor, 46–49
Texas, 239–247, 386–395, 640–643
Thalassoica antarctica, 494, 499, 504–510
Thinocorus orbignyianus, 448
Thompson, Charles F., see Nolan, Val Jr., and ———
Thornbill, Blue-mantled, see Chalcostigma stanleyi
Thrasher, Bendires, see Toxostoma bendirei
Brown, see Toxostoma rufum
Curve-billed, see Toxostoma curvirostre

LeConte's, see Toxostoma lecontei
Sage, see Oreoscoptes montanus
Thrush, Black-billed, see Turdus ignobilis
Gray-cheeked, see Catharus minimus
Hermit, see Catharus guttatus
Rufous-bellied, see Turdus rufiventris
Swainson's, see Catharus ustulatus
Wood, see Hylocichla mustelina
Thryorchilus browni, 149
Thryothorus genibarbis, 149
ludovicianus, 21–29, 155
rufalbus, 138
modestus, 138
time budget
Melanerpes erythrocephalus, 528–531
Tinamou, Brazilian, see Crypturellus strigulosus
Tit, Great, see Parus major
Titmouse, Tufted, see Parus bicolor
tree species selection, 221–238
Todus mexicanus, 204
Tody, Puerto Rican, see Todus mexicanus
tower casualties, 335–345
Towhee, Green-tailed, see Pipilo chlorura
Rufous-sided, see Pipilo erythrophthalmus
Toxostoma bendirei, 472
curvirostre, 391
lecontei, 129
rufum, 21–25, 129
Traylor, Melvin A., A classification of the tyrant flycatchers (Tyrannidae), reviewed, 156
Trichoglossus haematodus, 664
Tringa flavipes, 65–67, 79–83
melanoleuca, 67–68, 79–83
solitaria, 67, 79–83
Troglodytes aedon, 120, 272–273, 335–345, 636
a. guadeloupensis, 635–637
a. martinicensis, 635
solstitialis, 149
Trogan puella, 169
Trumpeter, Gray-winged, see Psophia crepitans
Pale-winged, see Psophia leucoptera
Tudor, Guy, see Gochfeld, Michael and ———
Tupinambis teguixin, 283
Turdus ignobilis, 140–141
merula, 14
migratorius, 21–29, 120–122, 525–527, 578–579, 644
rufiventris, 272–273
Turnstone, Ruddy, see Arenaria interpres
Tyler, Jack D., Red Bobwhites in Oklahoma, 652–653; review by, 473
Tyrannidae, 156
Tyranninae, 156
Tyranniscus, 156
Tyrannus melancholicus, 128, 272–273
tyrannus, 380, 450–451, 578, 584
verticalis, 325, 380, 473
Tyrant, Cattle, see Machetornis rixosus
Tyto alba, 134–137
Udvardy, Miklos D. F., The Audubon Society field guide to North American birds, reviewed, 472–473
Veery, see Catharus fuscescens
Vermivora peregrina, 335–345
pinus, 153
ruficapilla, 121, 472
virginiae, 129
vertical distribution, 19–30
Vireo, Hutton's, see Vireo huttoni
Philadelphia, see Vireo philadelphicus
Red-eyed, see Vireo olivaceus
Solitary, see Vireo solitarius
Warbling, see Vireo gilvus
White-eyed, see Vireo griseus
Yellow-throated, see Vireo flavifrons
Vireo flavifrons, 23, 335–345
gilvus, 236
griseus, 21–29, 335–345
huttoni, 129
olivaceus, 23, 335–345, 407–408, 578
philadelphicus, 326, 335–345
solitarius, 121, 407
vocalizations
Melanerpes uropygialis, 451–455
Vulture, Black, see Coragyps atratus
Turkey, see Cathartes aura
Vulpes fulva, 133–134, 316
Walsh, Helene, Food of nestling Purple Martins, 248–260
Warbler, Adelaide's, see Dendroica adelaidae
Bay-breasted, see Dendroica castanea
Black-and-white, see Mniotilta varia
Blackburnian, see Dendroica fusca

Blackpoll, see Dendroica striata
Black-throated Blue, see Dendroica caerulescens
Blue-winged, see Vermivora pinus
Cape May, see Dendroica tigrina
Cerulean, see Dendroica caerulea
Chestnut-sided, see Dendroica pensylvanica
Grace's, see Dendroica graciae
Hermit, see Dendroica occidentalis
Hooded, see Wilsonia citrina
Kentucky, see Oporornis formosus
Kirtland's, see Dendroica kirtlandii
Magnolia, see Dendroica magnolia
Mourning, see Oporonis philadelphia
Nashville, see Vermivora ruficapilla
Palm, see Dendroica palmarum
Pine, see Dendroica pinus
Plumbeous, see Dendroica plumbea
Prairie, see Dendroica discolor
Prothonotary, see Protonotaria citrea
Rufous-capped, see Basileuterus rufifrons
Swainson's, see Limnothlypis swainsonii
Tennessee, see Vermivora peregrina
Townsend's, see Dendroica townsendi
Virginia's, see Vermivora virginiae
Wilson's, see Wilsonia pusilla
Worm-eating, see Helmitheros vermivorus
Yellow, see Dendroica petechia
Yellow-rumped, see Dendroica coronata
Yellow-throated, see Dendroica dominica
Waterthrush, Louisiana, see Seiurus motacilla
Northern, see Seiurus noveboracensis
Watson, Donald, The Hen Harrier, reviewed, 661–662
Waxwing, Cedar, see Bombycilla cedrorum
weight, hatchling, Molothrus ater, 353–358
Westwood, N. J., see Murton, R. K. and ———
Whimbrel, see Numenius phaeopus
Whistling-Duck, Fulvous, see Dendrocygna bicolor
White, Donald H. and Douglas James, Differential use of fresh water environments by wintering waterfowl of coastal Texas, 99–111
White, Stephen B., see Dolbeer, Richard A., Paul P. Woronecki, Allen R. Stickley, Jr., and ———
Whitmore, Robert C., review by, 658–660
Wigeon, American, see Anas americana
Wight, Howard M., see Reynolds, Richard T. and ———
Wilbur, Sanford R., Turkey Vulture egg-shell thinning in California, Florida, and Texas, 642–643
Wiley, James W., see Snyder, Noel F. R. and ———
Willet, see Catoptrophorus semipalmatus
Williams, Andrew, see Kiff, Lloyd F. and ———
Williams, Lovett E., Jr., see Nesbitt, Stephen A., ———, Larry McNease, and Ted Joanen
Wilson Ornithological Society Committee Chairmen, 672
Wilson, Stephen W., Food size, food type, and foraging sites of Red-winged Blackbirds, 511–520
Wilsonia citrina, 21–25, 129, 197–214, 335–345
pusilla, 472
Wilz, Kenneth J. and Vincent Giampa, Habitat use by Yellow-rumped Warblers at the northern extremities of their range, 566–574
Wolf, Larry L., Species relationships in the avian genus Aimophila, reviewed, 328–329
Wood, Robert C., see Ainley, David G., ———, and William J. C. Sladen
Woodcreeper, Strong-billed, see Xiphocolaptes promeropirhynchus
Woodpecker, Acorn, see Melanerpes formicivorus
Brown-barred, see Picoides stricklandi
Chestnut-colored, see Celeus castaneus
Downy, see Picoides pubescens
Gila, see Melanerpes uropygialis
Golden-fronted, see Melanerpes aurifrons
Golden-olive, see Piculus rubiginosus
Gray-crowned, see Piculus auricularis
Hairy, see Picoides villosus
Lewis, see Asyndesmus lewis and Melanerpes lewis
Pileated, see Dryocopus pileatus
Red-bellied, see Melanerpes carolinus
Red-cockaded, see Picoides borealis

Red-headed, see Melanerpes erythrocephalus
Three-toed, see Picoides arcticus
White-headed, see Picoides albolarvatus
Woronecki, Paul P., see Dolbeer, Richard A., ———, Allen R. Stickley, Jr., and Stephen B. White
Woolfenden, Glen E., Growth and survival of young Florida Scrub Jays, 1–18; review by, 150
Wren, Apolinar's Marsh, see Cistothorus apolinari
Cactus, see Campylorhynchus brunneicapillum
Carolina, see Thryothorus ludovicianus
Gray-breasted, see Henicorhina leucosticta
House, see Troglodytes aedon
Guadeloupe House, see Troglodytes aedon guadeloupensis
Martinique House, see Troglodytes aedon martinicensis
Mountain, see Troglodytes solstitialis
Moustached, see Thryothorus genibarbis
Nightingale, see Microcerculus marginatus
Plain, see Thryothorus modestus
Rufous-and-white, see Thryothorus rufalbus
Sedge, see Cistothorus platensis
Short-billed Marsh, see Cistothorus platensis
Timberline, see Thryorchilus browni
Wunderle, Joseph M., Jr., Territorial defense of a nectar source by a Palm Warbler, 297–299
Xanthocroisticism, 336
Xema sabini, 127, 326
Xenodacnis parina, 448
Xiphocolaptes promeropirhynchus, 140–141
Yellowlegs, Greater, see Tringa melanoleuca
Lesser, see Tringa flavipes
Yellowthroat, Common, see Geothlypis trichas
Zenaida auriculata, 280
macroura, 458–460, 578
Zimmerius, 156
Zonotrichia albicollis, 21–27, 130, 454
atricapilla, 130
capensis, 271–284, 448
Zumeta, David C. and Richard T. Holmes, Habitat shift and roadside mortality of Scarlet Tanagers during a cold wet New England spring, 575–586

This issue of *The Wilson Bulletin* was published on 15 February 1979.

CONTENTS OF VOLUME 90

NUMBER 1

GROWTH AND SURVIVAL OF YOUNG FLORIDA SCRUB JAYS ..... *Glen E. Woolfenden* 1

VERTICAL DISTRIBUTION OF BIRDS IN A LOUISIANA BOTTOMLAND HARDWOOD FOREST
James G. Dickson and Robert E. Noble 19

AGRICULTURAL IMPACT OF A WINTER POPULATION OF BLACKBIRDS AND STARLINGS
Richard A. Dolbeer, Paul P. Woronecki, Allen R. Stickley, Jr., and Stephen B. White 31

BREEDING BEHAVIOR OF THE LOUISIANA HERON ..... *James A. Rodgers, Jr.* 45

STATUS AND NUMERICAL FLUCTUATIONS OF SOME NORTH AMERICAN WADERS ALONG THE SURINAM COAST ..... *Arie L. Spaans* 60

FEEDING OF NESTLING AND FLEDGLING EASTERN BLUEBIRDS ..... *Benedict C. Pinkowski* 84

DIFFERENTIAL USE OF FRESH WATER ENVIRONMENTS BY WINTERING WATERFOWL OF COASTAL TEXAS ..... *Donald H. White and Douglas James* 99

REPRODUCTIVE SUCCESS AND FORAGING BEHAVIOR OF THE OSPREY AT SEAHORSE KEY, FLORIDA
Robert C. Szaro 112

GENERAL NOTES

CHANGING AVIAN COMMUNITY STRUCTURE DURING EARLY POST-FIRE SUCCESSION IN THE SIERRA NEVADA ..... *Carl E. Bock, Martin Raphael, and Jane H. Bock* 119

NOTES ON THE DISTRIBUTION OF BIRDS IN SONORA, MEXICO
Stephen M. Russell and Donald W. Lamm 123

EGG CARRYING BY WOOD DUCK
Robert W. Strader, Richard Di Giulio, and Robert B. Hamilton 131

EVIDENCE OF BROOD ADOPTION BY RUFFED GROUSE ..... *Stephen J. Maxson* 132

MARSH HAWKS FOLLOW HUNTING RED FOX ..... *LeRoy W. Bandy and Barbara Bandy* 133

PREDATION ECOLOGY OF COEXISTING GREAT HORNED AND BARN OWLS ..... *Seri G. Rudolph* 134

HOST RECORDS FOR THE STRIPED CUCKOO FROM COSTA RICA
Lloyd F. Kiff and Andrew Williams 138

ANT-FOLLOWING BIRDS IN SOUTH AMERICAN SUBTROPICAL FORESTS
Michael Gochfeld and Guy Tudor 139

FISHING BEHAVIOR OF BLACK AND TURKEY VULTURES
Jerome A. Jackson, Irvine D. Prather, Richard N. Conner, and Sheila Parness Gaby 141

A NEW HYBRID WARBLER COMBINATION ..... *Richard C. Banks and James Baird* 143

ORNITHOLOGICAL LITERATURE 145

ORNITHOLOGICAL NEWS 157

REQUESTS FOR ASSISTANCE 18, 30, 118

NUMBER 2

A REVISION OF THE MEXICAN *PICULUS* (PICIDAE) COMPLEX ..... *Luis F. Baptista* 159

DISTRIBUTION, DENSITY, AND PRODUCTIVITY OF ACCIPITER HAWKS BREEDING IN OREGON
Richard T. Reynolds and Howard M. Wight 182

SOCIAL AND FORAGING BEHAVIOR OF WARBLERS WINTERING IN PUERTO RICAN COASTAL SCRUB
William Post 197

DDE RESIDUES AND EGGSHELL THINNING IN LOGGERHEAD SHRIKES
William L. Anderson and Ronald E. Duzan 215

TREE SPECIES USED BY BIRDS IN LOGGED AND UNLOGGED MIXED-CONIFEROUS FORESTS
Kathleen E. Franzreb 221

DOUBLE-BROODEDNESS IN PURPLE MARTINS IN TEXAS ..... *Charles R. Brown* 239

FOOD OF NESTLING PURPLE MARTINS ..... *Helene Walsh* 248

REPRODUCTION AND NEST SITE SELECTION BY RED-WINGED BLACKBIRDS IN NORTH LOUISIANA
Bryan T. Brown and John W. Goertz 261

THE RUFOUS-COLLARED SPARROW AS A HOST OF THE SHINY COWBIRD ..... *Rosendo M. Fraga* 271

GENERAL NOTES

SEXUAL SIMILARITY OF RED-HEADED WOODPECKERS AND POSSIBLE EXPLANATIONS BASED ON FALL TERRITORIAL BEHAVIOR ..... *Lawrence Kilham* 285

NOTES ON THE COURTSHIP BEHAVIOR OF BROWN-CAPPED ROSY FINCHES
Paul Hendricks 285

EFFECTS OF NEST REMOVAL ON STARLING POPULATIONS
H W Heusmann and Robert Bellville 287

UNUSUAL INCUBATION BEHAVIOR IN BOBWHITE ..... *George A. Hurst* 290

A CATTLE EGRET-DEER MUTUALISM ..... *Marc R. Halley and Wayne D. Lord* 291

A TEST OF SIGNIFICANCE FOR MAYFIELD'S METHOD OF CALCULATING NEST SUCCESS
Douglas D. Dow 291

MIRROR IMAGE VERSUS CONSPECIFIC STIMULATION IN ADULT MALE ZEBRA FINCHES
Michael J. Ryan 295

PROTOCALLIPHORA INFESTATION IN GREAT HORNED OWLS ..... *Robert T. Bohm* 297

TERRITORIAL DEFENSE OF A NECTAR SOURCE BY A PALM WARBLER
Joseph M. Wunderle, Jr. 297

RING-BILLED GULL PAIR WITH 2 NESTS ..... *William E. Southern* 299

CLUTCH SIZE AND NEST PLACEMENT OF THE PIED-BILLED GREBE IN MANITOBA
Spencer G. Sealy 301

NEST PLACEMENT IN SAGE THRASHERS ..... *Terrell D. G. Rich* 303

GREAT BLACK-BACKED GULLS BREEDING IN SALT MARSH IN NEW JERSEY
Joanna Burger 304

PRESIDENT'S PAGE 306

ORNITHOLOGICAL NEWS 308

CONSERVATION COMMITTEE REPORT 309

ORNITHOLOGICAL LITERATURE 322

NUMBER 3

AUTUMN BIRD CASUALTIES AT A NORTHWEST FLORIDA TV TOWER: 1973–1975
Robert L. Crawford 335

WHITE PELICAN PRODUCTION AND SURVIVAL OF YOUNG AT CHASE LAKE NATIONAL WILDLIFE REFUGE, NORTH DAKOTA ..... *Robert F. Johnson, Jr. and Norman F. Sloan* 346

EGG VOLUME AS A PREDICTOR OF HATCHLING WEIGHT IN THE BROWN-HEADED COWBIRD *Val Nolan Jr. and Charles F. Thompson* 353

BEHAVIOR AND SEX ROLES OF NESTING ANHINGAS AT SAN BLAS, MEXICO *Joanna Burger, Lynne M. Miller, and D. Caldwell Hahn* 359

POST-FLEDGING BEHAVIOR OF PURPLE MARTINS ..... *Charles R. Brown* 376

NESTING ECOLOGY OF THE PLAIN CHACHALACA IN SOUTH TEXAS *Wayne R. Marion and Raymond J. Fleetwood* 386

SPATIAL RELATIONSHIPS IN PERCHING BARN AND CLIFF SWALLOWS ..... *Anne E. Hutton* 396

POPULATIONS OF BAY-BREASTED AND CAPE MAY WARBLERS DURING AN OUTBREAK OF THE SPRUCE BUDWORM ..... *Douglass H. Morse* 404

AGE AND FORAGING ABILITY RELATIONSHIPS OF OLIVACEOUS CORMORANTS *Michael L. Morrison, R. Douglas Slack, and Edwin Shanley, Jr.* 414

ANALYSIS OF ROOSTING COUNTS AS AN INDEX TO WOOD DUCK POPULATION SIZE *Delbert E. Parr and M. Douglas Scott* 423

GENERAL NOTES

BLACK SKIMMER ABUNDANCE ON THE LOUISIANA-MISSISSIPPI-ALABAMA COAST *John W. Portnoy* 438

KILLDEER BREEDING DENSITIES ..... *Terrence R. Mace* 442

BROWN PELICAN RESTOCKING EFFORTS IN LOUISIANA *Stephen A. Nesbitt, Lovett E. Williams, Jr., Larry McNease, and Ted Joanen* 443

NOTES ON 2 SPECIES OF BIRDS PREVIOUSLY UNREPORTED FROM PERU *Dan A. Tallman, Theodore A. Parker, III, Gary D. Lester, and R. A. Hughes* 445

RESPONSES OF BIRDS TO A SNOWSTORM IN THE ANDES OF SOUTHERN PERU *John P. O'Neill and Theodore A. Parker, III* 446

CANNIBALISM BY AN ADULT GREAT HORNED OWL *J. B. Millard, T. H. Craig, and O. D. Markham* 449

CACHING BEHAVIOR OF SCREECH OWLS IN INDIANA ..... *James B. Cope and John C. Barber* 450

ATTACKS ON RED-HEADED WOODPECKERS BY FLYCATCHERS ..... *Roland R. Roth* 450

AN ANALYSIS OF GILA WOODPECKER VOCALIZATIONS ..... *Gene L. Brenowitz* 451

AN AGGRESSIVE ENCOUNTER BETWEEN A PINTAIL WITH A BROOD AND A FRANKLIN GULL *George Hochbaum and Garth Ball* 455

CANADA GOOSE-GREAT BLUE HERON-GREAT HORNED OWL NESTING ASSOCIATIONS *Richard L. Knight and Albert W. Erickson* 455

GIANT CANADA GOOSE INCUBATES EGGLESS NEST ..... *Conrad A. Fjetland* 456

NESTING SUCCESS AND NEST SITE SELECTION OF RED-WINGED BLACKBIRDS IN A FRESHWATER SWAMP ..... *Brent Ortego and Robert B. Hamilton* 457

EXTREME NESTING DATES FOR THE MOURNING DOVE IN CENTRAL ILLINOIS ..... *L. Barrie Hunt* 458

A VOLUMETRIC ANALYSIS OF SHARP-TAILED GROUSE SPERM IN RELATION TO DANCING GROUND SIZE AND ORGANIZATION ..... *Wayne M. Nitchuk and Roger M. Evans* 460

PRESIDENTS PAGE 463

FIFTY YEARS OF THE WILSON ORNITHOLOGICAL SOCIETY ..... *Maurice Brooks* 464

ORNITHOLOGICAL LITERATURE 468

CONSTITUTION AND BY-LAWS OF THE WILSON ORNITHOLOGICAL SOCIETY 474

ORNITHOLOGICAL NEWS 478

NUMBER 4

ON MATURATION OF THAYER'S GULL ..... *George M. Sutton and David F. Parmelee* 479

BIRD LIFE AT CAPE CROZIER, ROSS ISLAND
David G. Ainley, Robert C. Wood, and William J. L. Sladen 492

FOOD SIZE, FOOD TYPE, AND FORAGING SITES OF RED-WINGED BLACKBIRDS ..... *Stephen W. Wilson* 511

WINTER TERRITORIAL AND FORAGING BEHAVIOR OF RED-HEADED WOODPECKERS IN FLORIDA
Debra Moskovits 521

TARSAL COLOR OF AMERICAN COOTS IN RELATION TO AGE ..... *Richard D. Crawford* 536

NESTING BEHAVIOR AND AFFINITIES OF MONK PARAKEETS OF SOUTHERN BUENOS AIRES PROVINCE, ARGENTINA ..... *Philip S. Humphrey and Roger Tory Peterson* 544

MORPHOLOGY OF THE LARYNX OF *CORVUS BRACHYRHYNCHOS* (PASSERIFORMES: CORVIDAE)
Walter J. Bock 553

HABITAT USE BY YELLOW-RUMPED WARBLERS AT THE NORTHERN EXTREMITIES OF THEIR WINTER RANGE ..... *Kenneth J. Wilz and Vincent Giampa* 566

HABITAT SHIFT AND ROADSIDE MORTALITY OF SCARLET TANAGERS DURING A COLD WET NEW ENGLAND SPRING ..... *David C. Zumeta and Richard T. Holmes* 575

COMMUNITY ECOLOGY OF THE HELMINTH PARASITES OF THE BROWN PELICAN
Stephen R. Humphrey, Charles H. Courtney, and Donald J. Forrester 587

NEST-SITE SELECTION OF WILLETS IN A NEW JERSEY SALT MARSH
Joanna Burger and Joseph Shisler 599

ORGANOCHLORINE RESIDUES AND EGGSHELL THINNING IN WOOD STORKS AND ANHINGAS
Harry M. Ohlendorf, Erwin E. Klaas and T. Earl Kaiser 608

HABITAT SELECTION BY BREEDING RED-WINGED BLACKBIRDS ..... *Peter H. Albers* 619

GENERAL NOTES

ANOTHER COLONY OF THE GUADELOUPE HOUSE WREN ..... *Jon C. Barlow* 635

PESTICIDE LEVELS AND SHELL THICKNESS OF COMMON LOON EGGS IN NEW HAMPSHIRE
Scott A. Sutcliffe 637

DECLINES IN ENVIRONMENTAL POLLUTANTS IN OLIVACEOUS CORMORANT EGGS FROM TEXAS, 1970–1977 ..... *Michael L. Morrison, R. Douglas Slack, and Edwin Shanley, Jr.* 641

TURKEY VULTURE EGGSHELL THINNING IN CALIFORNIA, FLORIDA, AND TEXAS
Sanford R. Wilbur 642

AN EXPERIMENTAL ANALYSIS OF THE INTERRELATIONSHIP BETWEEN NEST DENSITY AND PREDATION IN OLD-FIELD HABITATS ..... *Bradley M. Gottfried* 643

CANADA GOOSE TAKES OVER MALLARD NEST ..... *Thomas N. Mather* 646

NOTES ON FOOD HABITS OF THE PLAIN CHACHALACA FROM THE LOWER RIO GRANDE VALLEY
Zän D. Christensen, Danny B. Pence, and Gretchen Scott 647

HERRING GULLS STEALING PREY FROM PARASITIC JAEGERS ..... *R. I. G. Morrison* 649

THE USE OF FEEDING AREAS OUTSIDE OF THE TERRITORITY OF BREEDING BLACK OYSTERCATCHERS ..... *E. B. Hartwick* 650

SCREECH OWL PREDATION ON A COMMON FLICKER NEST ..... *Mary C. Landin* 652

RED BOBWHITES IN OKLAHOMA ..... *Jack D. Tyler* 652

ASYNCHRONY OF HATCHING IN RED-WINGED BLACKBIRDS AND SURVIVAL OF LATE AND EARLY HATCHING BIRDS ..... *Charles Strehl* 653

WEATHER RELATED MORTALITY OF BLACKBIRDS AND STARLINGS IN A KENTUCKY ROOSTING CONGREGATION ..... *Paul A. Stewart* 655

AN OBSERVATION OF POLYGYNY IN THE COMMON YELLOWTHROAT *George V. N. Powell and H. Lee Jones* 656

ORNITHOLOGICAL LITERATURE 658

PRESIDENT'S PAGE 669

EDITORIAL: CHANGING OF THE GUARD 586

ORNITHOLOGICAL NEWS 670

SERIAL PUBLICATIONS CURRENTLY RECEIVED BY THE JOSSELYN VAN TYNE MEMORIAL LIBRARY 673

INDEX 679